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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/670,269	269 09/26/2003		You-Jun Hsieh	2450-0545P 4908	
2292	7590	05/19/2006		EXAMINER	
BIRCH ST	<b>EWART</b>	<b>KOLASCH &amp; BIR</b>	LESPERANCE, JEAN E		
PO BOX 74	7				
FALLS CHU	JRCH, V.	A 22040-0747	ART UNIT	PAPER NUMBER	
				2629	

DATE MAILED: 05/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/670,269	HSIEH, YOU-JUN				
	Office Action Summary	Examiner	Art Unit				
		Jean E. Lesperance	2629				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
2a) <u></u>	Responsive to communication(s) filed on <u>26 Sec</u> This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.					
Dispositi	on of Claims						
5)	Claim(s) 1-7 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 1 and 3-7 is/are rejected.  Claim(s) 2 is/are objected to.  Claim(s) are subject to restriction and/or on Papers  The specification is objected to by the Examiner The drawing(s) filed on 26 September 2003 is/a Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Examiner Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner Replacement drawing sheet Replacem	relection requirement.  re: a)⊠ accepted or b)□ object drawing(s) be held in abeyance. See on is required if the drawing(s) is object	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority u	ınder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
2) 🔲 Notice 3) 🔯 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date 9/26/03.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa					

#### **DETAILED ACTION**

1. The application filed September 26, 2003 is presented for examination and claims 1 to 7 are pending.

### Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1, 3-5, and 7 are rejected under 35 U.S.C. 102(b) as being unpatentable over US Patent # 5,717,428 ("Barrus et al.").

Regarding claim 1, Barrus et al. teach a computer keyboard, for inputting data and capable of being disconnected from a computer system (a portable computer <a href="keyboard">keyboard</a> capable of stand-alone, automatic and host modes of operation with plurality of different host computers (column 1, lines 12-14)), comprising:

a standard press key, having a plurality of keys for entering character data (the portable computer keyboard Fig.1 (10));

a keyboard microcontroller (MCU) for generating a character code corresponding to the key (the keyboard matrix Fig.4 (340);

a monitor, disposed on the operating panel of the keyboard (the small LCD display Fig.1 (80));

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a monitor microcontroller (MCU) for driving the monitor to display a bitmapped graphic pattern of the character entered from the standard press key (the microcontroller Fig.3 (15));

a memory unit for saving the character code (RAM Fig.3 (130); and a power supply unit for supplying the electric power required by the computer system (batteries Fig.3 (115)).

Regarding claim 3, Barrus et al. teach said the memory unit saves the bitmapped graphic pattern corresponding to the character code, such that when the standard press key enters a character, the keyboard microcontroller (MCU) being read and the monitor microcontroller (MCU) driving the monitor to display the bitmapped graphic pattern of the character (the microcontroller 230 determines if it is a control or instruction key, or if it is a data key. In response, if the key press is determined to be data, any conventional technique, such as a look-up table, may be used to store the corresponding ASCII value in RAM memory 250 and display it on the LCD display 200. If the key depressed is determined to be an instruction or other control character, the microcontroller 230 may execute the appropriate associated set of instructions corresponding to the depressed key. As will be described in much greater detail later, the information received by scanning of the keyboard matrix 340 allows data to be stored and edited, as well as providing instructions to the microcontroller 230 to control the sequence of operation or processing (column 8, lines 16-30)).

Regarding claim 4, Barrus et al. teach said the bitmapped graphic pattern in the memory unit is updated when the keyboard resuming its connection with the computer

system (If the queue was found to be empty in Step 820, the dumping flag is tested in Step 730 and if it is not set, the procedure loops back to Step 730 to scan the keyboard; otherwise, the procedure branches to Step 850 where the display is <u>updated</u> to indicate the transmission has been completed, the dumping flag is cleared and the procedure loops back to Step 730 to scan the keyboard (column 15, line 66 to column 16, line 5).

Regarding claim 5, Barrus et al. teach said the memory unit is a memory built in the computer keyboard (RAM Fig.3 (130) is built within the keyboard and it is not detachable.

Regarding claim 7, Barrus et al. teach the power supply unit is a battery (batteries Fig.3 (115)).

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over US

Patent # 5,717,428 ("Barrus et al.") in view of US Patent Application # 20020109675

("Kuan").

Regarding claim 6, Barrus et al. fails to teach said the memory unit is a detachable memory card.

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However, Kuan teaches a memory card Fig.1 (30) which detachable from the keyboard 100.

Thus, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to utilize the memory card as taught by Kuan in the portable computer keyboard disclosed by Barrus et al. because this would provide a computer peripheral device comprising a keyboard in which a memory card reading device is incorporated whereby the peripheral device serves as both an input device and a storage device (paragraph 0005).

#### Allowable Subject Matter

- 4. Claim 2 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. The following is an examiner's statement of reasons for allowance: the claimed invention is directed to a computer keyboard, for inputting data and capable of being disconnected from a computer system.

Dependent claim 2 identifies a uniquely distinct feature "said the keyboard controller (MCUI sends the character code stored in the memory unit to the computer system after the keyboard resuming the connection with the computer system, and receives the bitmapped graphic pattern corresponding to said character code returned from the computer system, and then sends the bitmapped graphic pattern to the monitor

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microcontroller (MCUI for driving the monitor to display the bitmapped graphic pattern

on the monitor".

Conclusion

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jean Lesperance whose telephone number is (571)

272-7692. The examiner can normally be reached on from Monday to Friday between

10:OOAM and 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Richard Hjerpe, can be reached on (571) 272-7691.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(571) 273-8300 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal

drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the technology Center 2600 Customer Service Office

whose telephone number is (703) 306-0377.

Jean Lesperance

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Date 5/8/2006

RICHARD H IERDE

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SUPERVISORY PATENT EXAMINER

**TECHNOLOGY CENTER 2600**